



Levee overtopping, Jan. 2009

SOUTH FORK SNOQUALMIE RIVER

King County Flood Hazard Management Plan Update

King County's river and floodplain management vision and strategy:

- Reduce flood risks in and around the City of North Bend and in unincorporated King County.
- Plan actions at a broader scale, considering the whole corridor, rather than planning stand-alone projects one at a time.
- Form and maintain collaborative relationships with property owners, cities and other partners.
- Support habitat restoration by managing water quality.
- Consider risks to recreational users of the river when developing and implementing flood hazard management projects.

Existing conditions of the South Fork Snoqualmie:

- The heart of the South Fork is a leveed reach through North Bend's commercial area.
- Private homes are impacted by flooding.
- Levees provide about 30-year flood protection, but harm fish and aquatic habitat.
- Levees have geotechnical and seepage problems, which affect their stability and function.
- There are 28 levees or revetments along the South Fork corridor.



Levee seepage

King County Flood Plan accomplishments 2006-2012:

- Repaired seven facilities including emergency repair during flood events.
- Elevated ten homes in the Shamrock Park neighborhood along the left bank of the leveed section of the corridor.
- Acquired one property in Shamrock Park and demolished the structures on it.
- Funded and have begun work to elevate seven additional homes in the Shamrock Park and Clough Creek neighborhoods.
- Assessed geomorphic hazards and risks to the Circle River Ranch neighborhood.
- Completed a study in 2011 of the South Fork, to measure the impacts of gravel accumulation on flood levels, and consider the effectiveness of various gravel management practices.
- Completed a preliminary analysis of geotechnical and hydraulic factors for the South Fork Levee Improvement project and developed and analyzed a set of alternative actions as part of the preliminary project design.

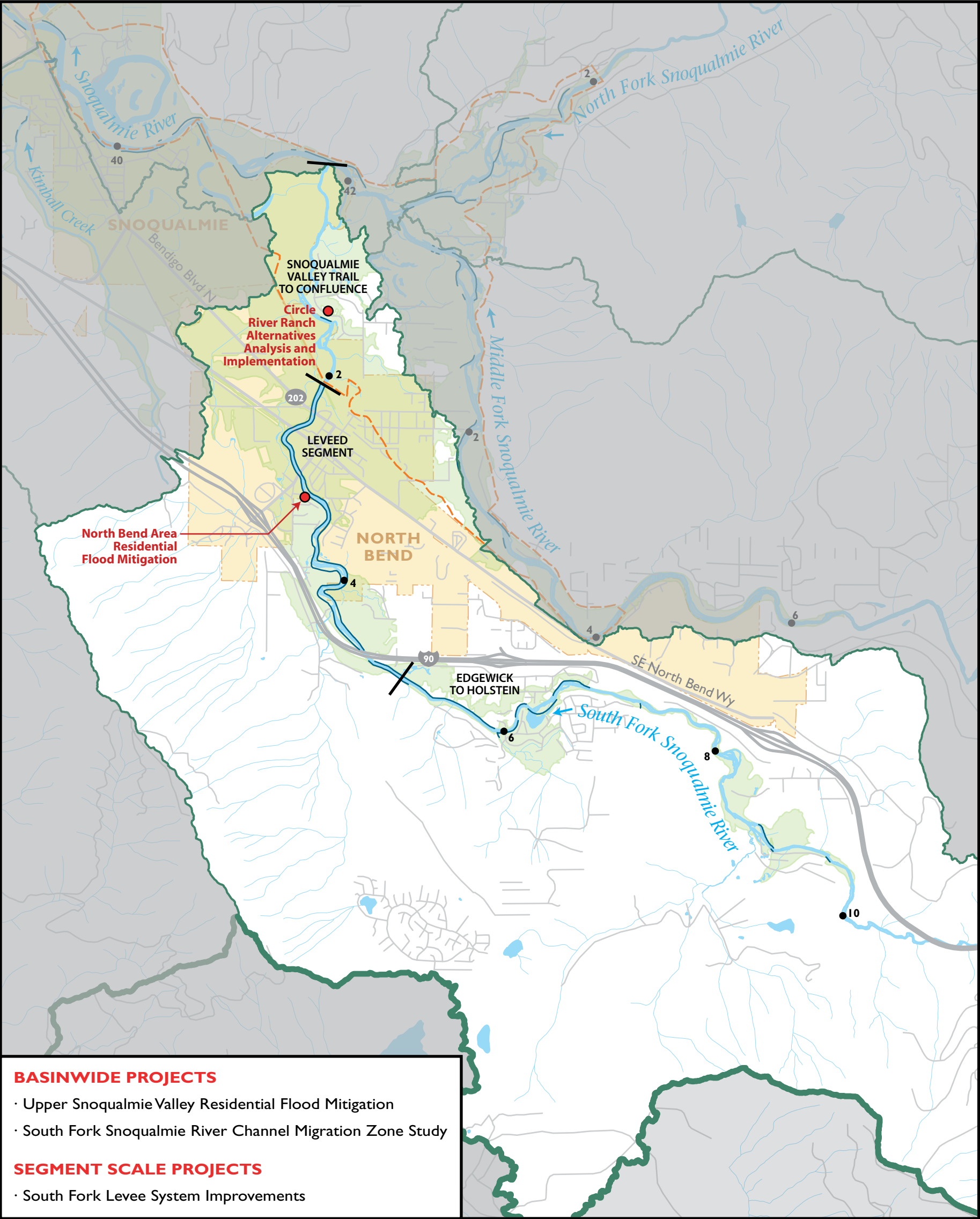
Proposed river and floodplain management actions for 2013-2018:

- Prioritize and undertake residential home relocations, acquisitions and elevations throughout the upper basin.
- Implement a set of actions to repair, relocate and/or strengthen key parts of the existing South Fork levee system to maintain or increase flood hazard protection to surrounding areas. We will implement early actions as appropriate and in response to flood events.
- Elevate homes and other residential structures in the Shamrock Park neighborhood.
- Develop and analyze alternatives to address risks to homes in the Circle River Ranch neighborhood.
- Update channel migration mapping for the South Fork Snoqualmie River.

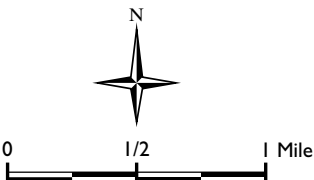
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SOUTH FORK SNOQUALMIE RIVER
KING COUNTY FLOOD HAZARD MANAGEMENT PLAN



- Proposed Project Sites, as described in Chapter 5 (Project locations are approximate)
- Outer Boundary of Channel Migration Hazard Zones (Moderate & Severe)
- Rivers and Streams with FEMA Mapped 100-Year Regulatory Floodplains
- Rivers and Streams with Unmapped Regulatory Floodplains
- Flood Protection Infrastructure (Levees & Revetments)
- River Miles (Approximate)
- Watershed/Basin Boundary
- Road
- Incorporated Area
- NAME River Segment Boundary and Segment Name

King County
Department of
Natural Resources and Parks
Water and Land Resources Division

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